

APPENDIX B. EXTERNAL PUBLICATIONS MADE IN CONNECTION WITH HTR PROTEUS

1. D. MATHEWS, R. BROGLI, R. CHAWLA, P. STILLER, "LEU HTR Experiments for the PROTEUS Critical Facility," *Proc. Jahrestagung Kerntechnik '89*, May 9-11, 1989, Düsseldorf.
2. G. SARLOS, R. BROGLI, D. MATHEWS, K. H. BUCHER, W. HELBLING, "Summary of the Activities in Switzerland in the Field of HTGR Development," *Eleventh International Conference on the HTGR*, June 19-20, 1989, Dimitrovgrad.
3. R. BROGLI, K.H. BUCHER, R. CHAWLA, K. FOSKOLOS, H. LUCHSINGER, D. MATHEWS, G. SARLOS, R. SEILER, "LEU HTR Critical Experiments Programme for the PROTEUS Facility in Switzerland," *Proc. IAEA Technical Committee on Gas-Cooled Reactor Technology, Safety and Siting*, June 21-23, 1989, Dimitrovgrad.
4. S. PELLONI, W. SEIFRITZ, J. STEPANEK, P. STILLER, W. GIESSER, D. LEITHNER, "Parameter Study on Water Ingress in a High Temperature Reactor", *Kerntechnik*, 53, 233, (1989).
5. D. MATHEWS, R. CHAWLA, S. PELLONI, R. SEILER, T. WILLIAMS, "Physics Planning for the PROTEUS LEU-HTR Critical Experiments," *Proc. ENC '90*, September 23-28, 1990, Lyon, France.
6. D. MATHEWS et al., "Present status of the PROTEUS HTR Experiments," *Proc. of a Specialists Meeting on Uncertainties in Physics Calculations for Gas-Cooled Reactor Cores*, May 9-11, 1990, Villigen, Switzerland.
7. S. PELLONI et al., "Present HTR Physics Computational Methods at PSI," *Proc. of a Specialists Meeting on Uncertainties in Physics Calculations for Gas-Cooled Reactor Cores*, May 9-11, 1990, Villigen, Switzerland.
8. D. MATHEWS, R. BROGLI, K. H. BUCHER, R. CHAWLA, S. PELLONI, R. SEILER, T. WILLIAMS, "LEU-HTR Critical Experiment Programme for the PROTEUS Facility," *PSI Annual Report*, Annexe IV, 1990.
9. R. BROGLI, K.H. BUCHER, R. CHAWLA, K. FOSKOLOS, H. LUCHSINGER, D. MATHEWS, G. SARLOS, R. SEILER, "LEU HTR Critical Experiments Programme for the PROTEUS Facility in Switzerland," *Energy*, 16, 507, (1991)
10. G. SARLOS, R. BROGLI, D. MATHEWS, K. H. BUCHER, W. HELBLING, "Survey on the Activities in Switzerland in the Field of HTGR Development," *Energy*, 16, 155, (1991)
11. R. CHAWLA, R. SEILER, D. MATHEWS, "PROTEUS Investigations for Advanced Thermal, Fast and Intermediate Spectrum Reactors," *Trans. Am. Nucl. Soc.*, 66, 447, (1992)

12. R. BROGLI, D. MATHEWS, R. SEILER, " HTR PROTEUS Experiments", *Proc. 2nd JAERI Symposium on HTGR Technologies*, October 21-23, 1992, Tokai, Japan.
13. F. C. DIFILIPPO, B. A. WORLEY, T. WILLIAMS, " Analysis of Kinetics Experiments in LEU HTR Configurations of the PROTEUS Facility," *Trans. Am. Nucl. Soc.*, 65, 457, (1992).
14. T. WILLIAMS, " Planning and Interpretation of Inverse Kinetics Experiments in LEU HTR Configurations of the PROTEUS Facility," *PSI Annual Report*, Annexe IV, 1992.
15. F. C. DIFILIPPO, M. CARO, T. WILLIAMS, " Simulation of Pulsed Neutron Source Reactivity Measurements," *Proc. Joint Int. Conf. on Maths. Methods and Supercomputing in Nucl. Applications*," April 19-23, 1993, Karlsruhe.
16. T. WILLIAMS, R. SEILER, D. MATHEWS, R. CHAWLA, " First Criticality in the PROTEUS LEU HTR Programme," *Proc. Jahrestagung Kerntechnik '93*, May 25-27, 1993, Köln.
17. D. MATHEWS, V. THIBULSKI, R. CHAWLA, " Anisotropic Diffusion Effects in Deterministic Pebble Bed Lattices," *Trans Am Nucl Soc*, 68(A), 438 (1993)
18. R. SEILER, R. CHAWLA, D. MATHEWS, T. WILLIAMS, " Experimental Investigation of Reactivity Effects Caused by Water Ingress in a LEU-HTR," *Proc. IAEA Tech. Mtg. on Response of Fuel, Fuel elements and Gas Cooled Reactor Cores under Accidental Air or Water Ingress Conditions*, Oct 25-27, 1993, Beijing, China
19. R. CHAWLA, " Generic Reactor Physics Studies in the Framework of the PROTEUS LEU-HTR Programme," *Invited Paper IXth Brazilian Mtg. on Reactor Physics and Thermal Hydraulics*, Oct 25-29, 1993, Caxambu, Brazil.
20. T. WILLIAMS, R. CHAWLA, " Intercomparison of Rod Worth Measurement Techniques in a LEU HTR Assembly," *PSI Annual Report*, Annexe IV, 1993.
21. T. WILLIAMS, R. CHAWLA, " Intercomparison of Rod Worth Measurement Techniques in a LEU HTR Assembly," *Proc. Int. Conf on Reactor Physics and Reactor Computations*," Jan 23-26, 1994, Tel Aviv.
22. T. WILLIAMS, R. CHAWLA, H. HAGER, D. MATHEWS, R. SEILER, " Absorber Rod Interaction and Asymmetry Effects in Experimental LEU HTR Configurations," *Proc. 1994 ANS Topical Mtg. on Advances in Reactor Physics*, April 11-15, 1994, Knoxville.
23. O.KÖBERL, R. SEILER, R. CHAWLA, X. XU, " On the Measurement of Reaction Rate Distributions and Ratios in LEU-HTR Pebble-Bed Assemblies," *Proc. Jahrestagung Kerntechnik '94*, May 17-19, 1994, Stuttgart.
24. WILLIAMS T., CHAWLA R. and HAGER H., "Experimental Findings on Reflector Control-Rod Worths in an MHTGR-like System" *Proc. IAEA Tech. Mtg on*

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25. TWILLIAMS T. and CHAWLA R., "Intercomparison of Rod-Worth Measurement Techniques in an LEU-HTR Assembly," *Proceedings of the International Conference on Reactor Physics and Reactor Computations*, Tel-Aviv, January 23-26, 1995
26. VAN DAM H., "Inhour Equation and Kinetic Distortion in a Two-Point Reactor Kinetic Model", *Ann. Nucl. Energy*, 24, 1127 (1996)
27. WILLIAMS T., ROSSELET M., CHAWLA R., WALLERBOS E. and VAN DAM H., "Experimental Investigation of the Kinetic Parameter $\beta_{\text{eff}}/\Lambda$ in Graphite-Moderated, LEU Fuelled, Critical Configurations", *International Conference on the Physics of Reactor*, Mito, Japan (1996)
28. WILLIAMS T., "On the Choice of Delayed Neutron Parameters for the Analysis of Kinetics Experiments in ^{235}U Systems", *Ann. Nucl. Energy*, 23, (1996)
29. ROSSELET, M., WILLIAMS, T. and CHAWLA R., "Subcriticality Measurements Using an Epithermal Pulsed-Neutron Source Technique in Pebble Bed HTR Configurations," *Ann. Nucl. Energy*, 25, No. 4-5, 285 (1998)
30. KÖBERL O., "Experimentelle Neutronenbilanzuntersuchungen zum Wassereinbruch in einen Hochtemperaturreaktor mit niedrig Angereichertem Uranbrennstoff", *Thesis Nr. 1803*, Swiss Federal Institute of Technology, Lausanne, (1998)
31. WALLERBOS E.J.M., "Reactivity Effect in a Pebble-Bed Type Nuclear Reactor", *Thesis*, Interfaculty Reactor Institute, TU-Delft (1998)
32. ROSSELET M., "Reactivity Measurements and their Interpretation in Systems with Large Spatial Effect" *Thesis Nr. 1930*, Swiss Federal Institute of Technology, Lausanne (1999)
33. ROSSELET M, CHAWLA R. and WILLIAMS T., "Investigation of the k-eff Variation upon Water Ingress in a Pebble-Bed LEU-HTR," *Annals of Nuclear Energy* 26 (1999)
34. ROSSELET, M., CHAWLA, R. and WILLIAMS, T., "Epithermal Inverse Kinetic Measurements and Their Interpretation Using a Two Group Model," *Nucl. Sci. And Eng.*, 135 (2000)